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TITLE: Level adjust display  
apparatus and method for on-screen  
display menu in image display  
device

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INVENTOR-INFORMATION:

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ABSTRACT:

A level adjust display apparatus and method for an on-screen display (OSD) menu of an image display device which displays function control targets in the form of an OSD menu on a screen is disclosed. The apparatus includes a key

input unit including a vertical adjust button and a horizontal adjust button for selecting and adjusting the function control targets, an OSD menu generation unit enabling respective level adjust directions of the function control targets to be displayed vertically or horizontally, and a control unit enabling a disposed direction of the vertical adjust button or the horizontal adjust button, a level adjust display direction for each of the function control targets and a vertical direction (position) or a horizontal direction (position) actually implemented on the screen with regard to the function control targets to correspond to each other, whereby the respective adjusting directions of level adjust buttons, the moving direction of OSD menu level meter and actual moving directions (positions) of function control targets implemented on the screen are in accordance with each other.

35 Claims, 17 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

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Detailed Description Text - DETX (23):

As shown in FIG. 7A, in order to adjust a horizontal size of the screen image using the variable histogram, a user selects a horizontal size item among the plurality of function control targets of the

OSD menu in a state in which the OSD menu is displayed on the screen of the CRT 19. In order to adjust the selected function control target, the horizontal adjust buttons 23, 24 are pressed and then the variable histogram in the horizontal level meter horizontally increases from the center thereof serving as a start point (0) toward the left and right directions up until the end points Max or decreases from the end points Max toward the center serving as the start point (0). At this time, the increase or decrease of the variable histogram is continuously carried out. Likewise, the horizontal adjust buttons 23, 24 are horizontally disposed to the right and to the left of the set/complete button 27, and according to the manipulation by a user the variable histogram increases or decreases horizontally. Accordingly, since the actual horizontal size of the screen image corresponds to the increase or decrease direction of the variable histogram of the level meter, a user can easily recognize the function control status of the image display device.

#### Detailed Description Text - DETX (25):

As shown in FIG. 7C, in order to adjust the vertical size of the screen image using the variable diagram of the level meter, a user presses the vertical adjust buttons 25, 26 and the variable histogram of the vertical level meter vertically increases from the center thereof serving as a start point (0) in the standard area toward the top and bottom

directions until the end points Max or decreases from the end points Max toward the center serving as the start point (0). Likewise, the vertical adjust buttons 25, 26 are vertically disposed from the set/complete button 27. In accordance with the manipulation by the user, the variable histogram vertically increases or decreases and accordingly the actual vertical size of the screen image moves to the top or bottom in accordance therewith, whereby the user can easily recognize the function control status of the image display device.